VIDE-V25714

KFC®

SERVICE MANUAL

CA 6729SL/SLNF/STC5
6719 SL

KUO FENG CORPORATION

CA 6729SL Color Monitor Maintenance Guide

I. Introduction :

CA6729SL is a 17" CRT color monitor.

The function are included brightness、contrast、Horizontal phase、Horizontal size、Vertical Center、Vertical size、side pin 、trapezoid、degauss、etceteras all functions show on the screen by OSD type.

II . Power Input Voltage:

AC Power Input range : 90VAC ~ 135VAC or 180VAC ~ 270VAC .

III. Input Signal Specification :

1.Input Signal :D-SUB or BNC

2. Horizontal Input : TTL signal, input current ≧ 5mA,
Frequency range : 30 KHz ~ 95 KHz .

3. Vertical Input : TTL signal, input current ≧ 5mA,
Frequency range : 50 Hz ~ 160 Hz .

4. Sync. Signal Input Voltage : 2.5Vp-p ~ 5.0Vp-p .

5.Video Input :(R.G.B.)input voltage 0.7 Vp-p.
R.G.B. Band Width Output : 140MHz

* The standard test condition are used ET-6000 VGA card.

IV. Switching Mode Power Supply Output :

1. D510 output voltage +200VDC is to voltage feedback and horizontal deflection .

SERVICE MANUAL

FOR

17" MULTI SCAN COLOR MONITOR

CA6729SL/SLNF/STC5 SERIES

CONTENTS

1. ADJUSTMENT
2. TROUBLE SHOOTING
3. VR LOCATION
4. BLOCK DIAGRAM
5. SCHEMATIC DIAGRAM

2. D511 output voltage +80VDC is to provide for video IC use.

3. D512 output voltage -10VDC is to provide for Vertical IC use.

4. D513 output voltage +24VDC is to provide for horizontal driver and voltage output control.

5. D514 output voltage +15VDC is to provide for horizontal IC and vertical IC use.

6. D515 output voltage +7VDC is to provide for CRT filament and TTL IC use.

V. Interior VR Functions :

1. VR501: For B+ voltage adjustment.

2. VR103: For High voltage adjustment.

3.VR301: For Horizontal size adjustment.

4.VR102: For Horizontal center adjustment.

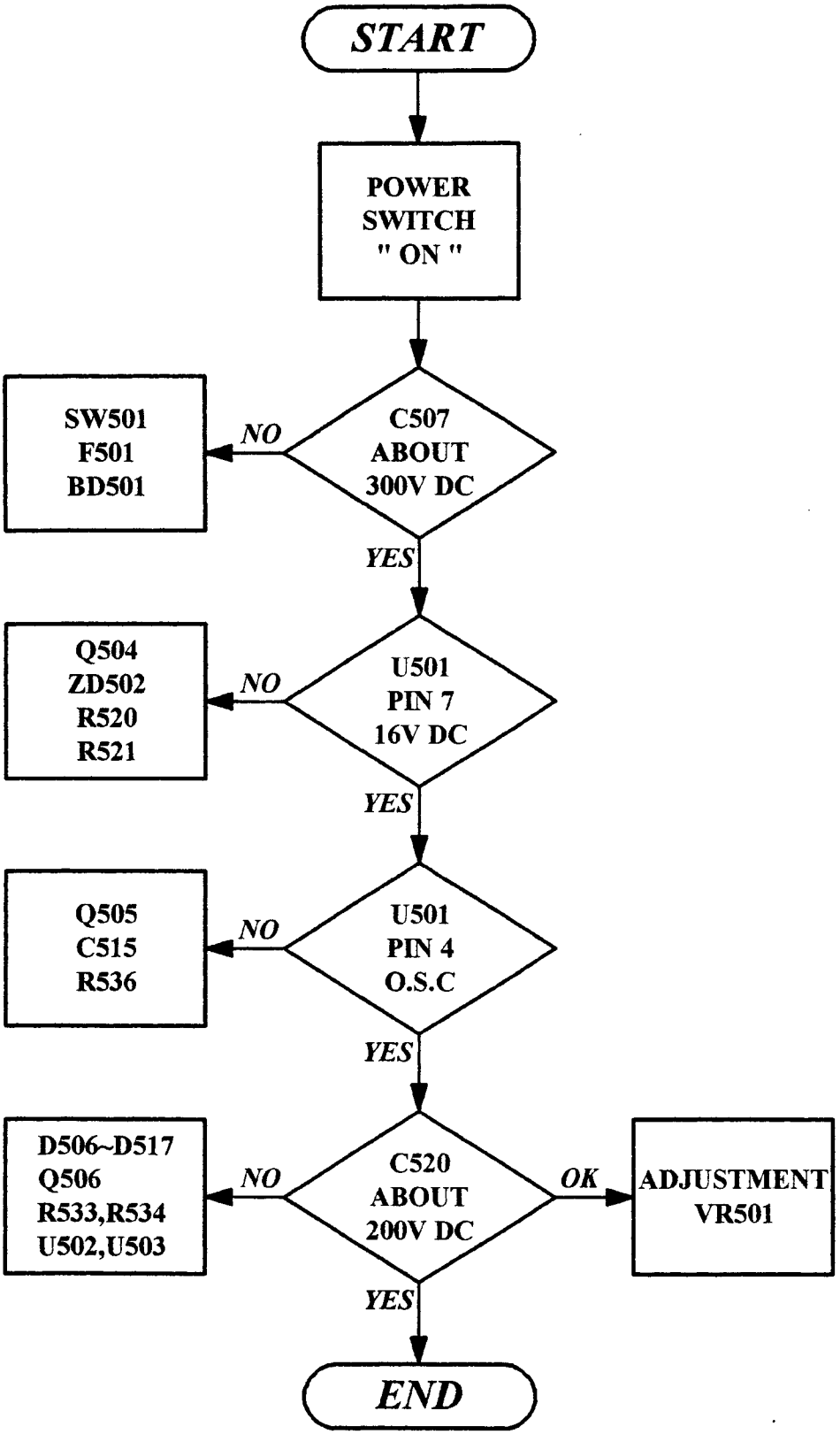
5.VR101: For Horizontal phase adjustment.

6. VR201: For Vertical center adjustment .

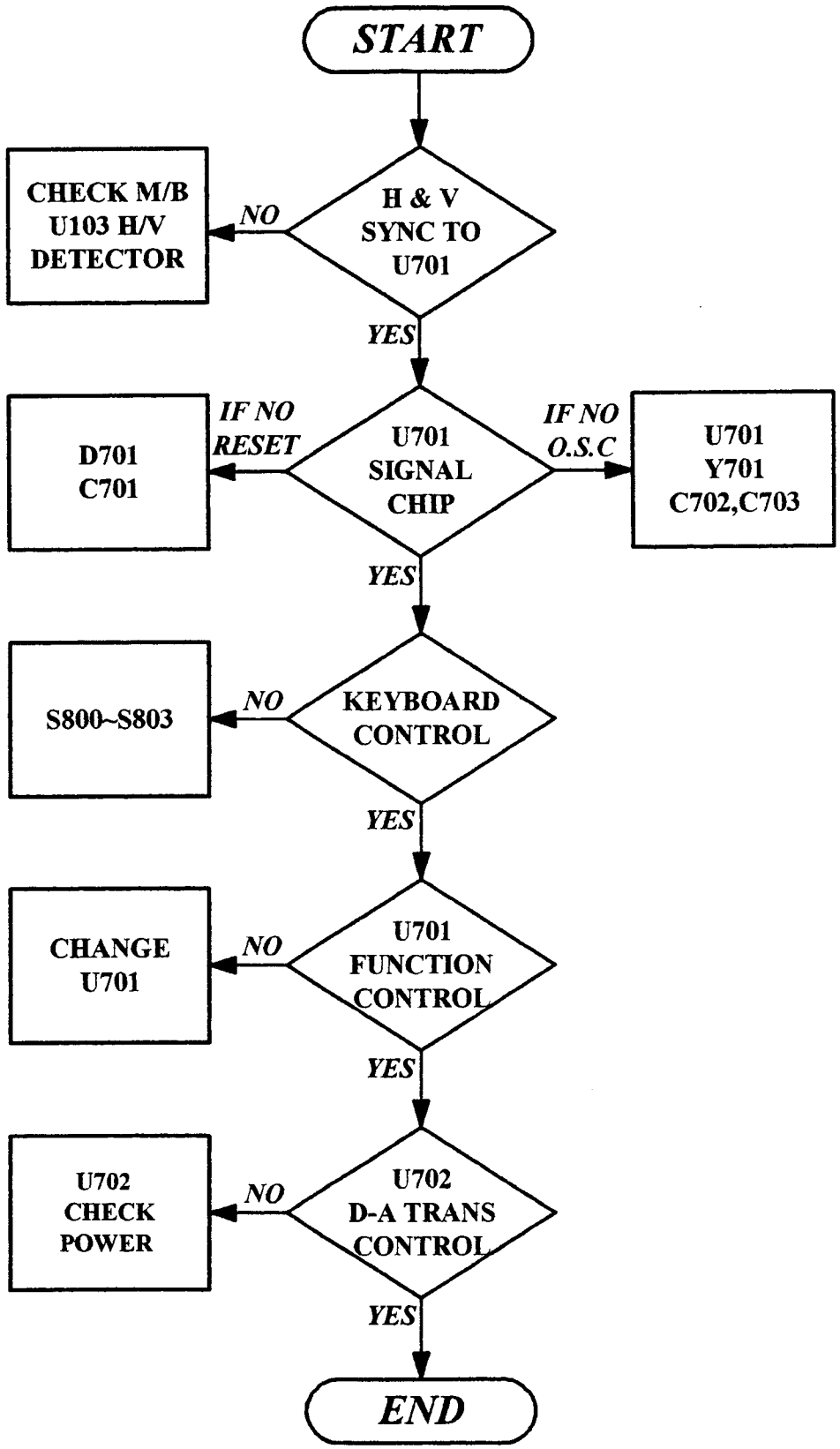
7.VR601、602、603 :For Low - Brightness adjustment.

8.VR604: For ABL adjustment.

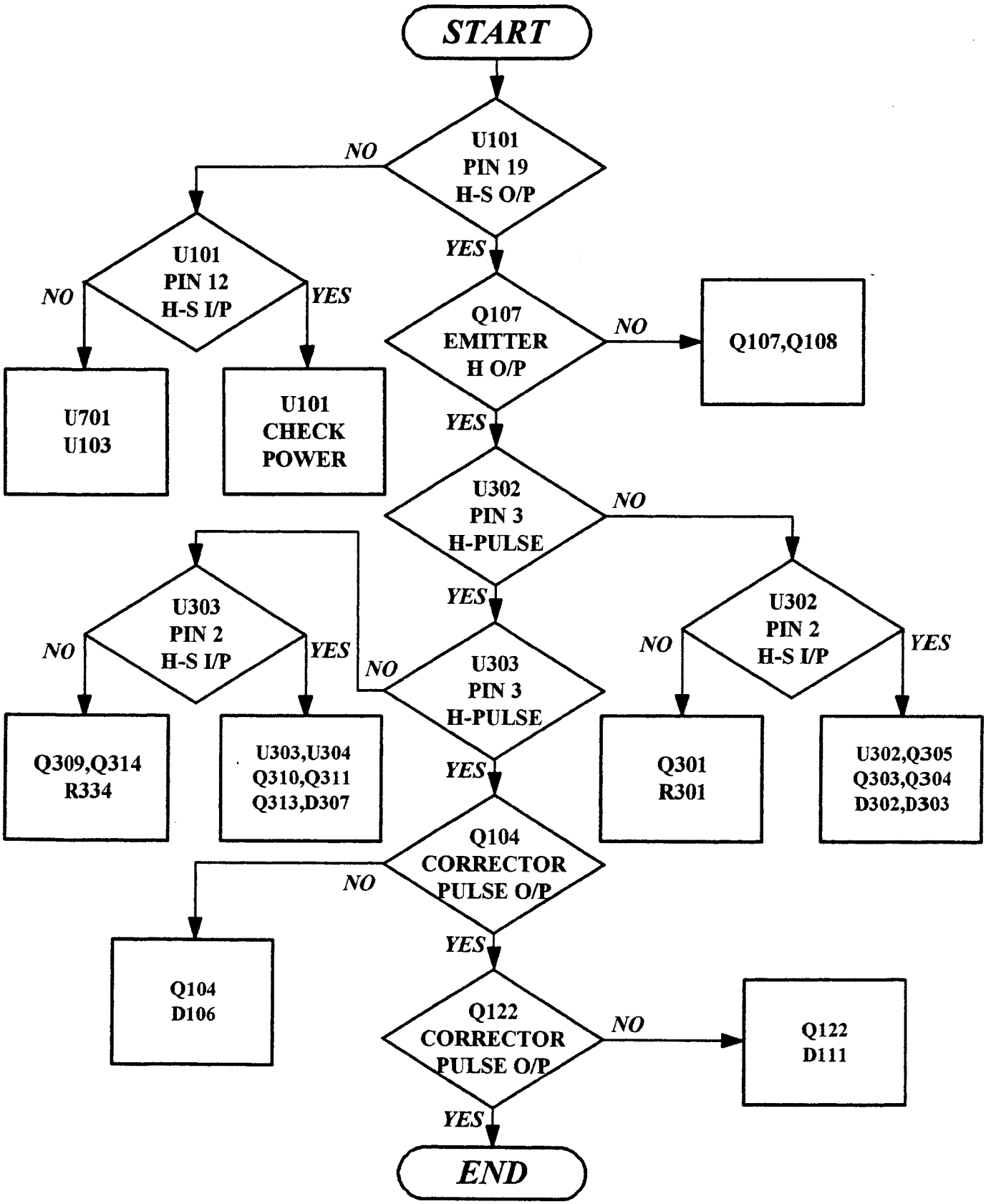
POWER SUPPLY TROUBLE SHOOTING FLOW CHART



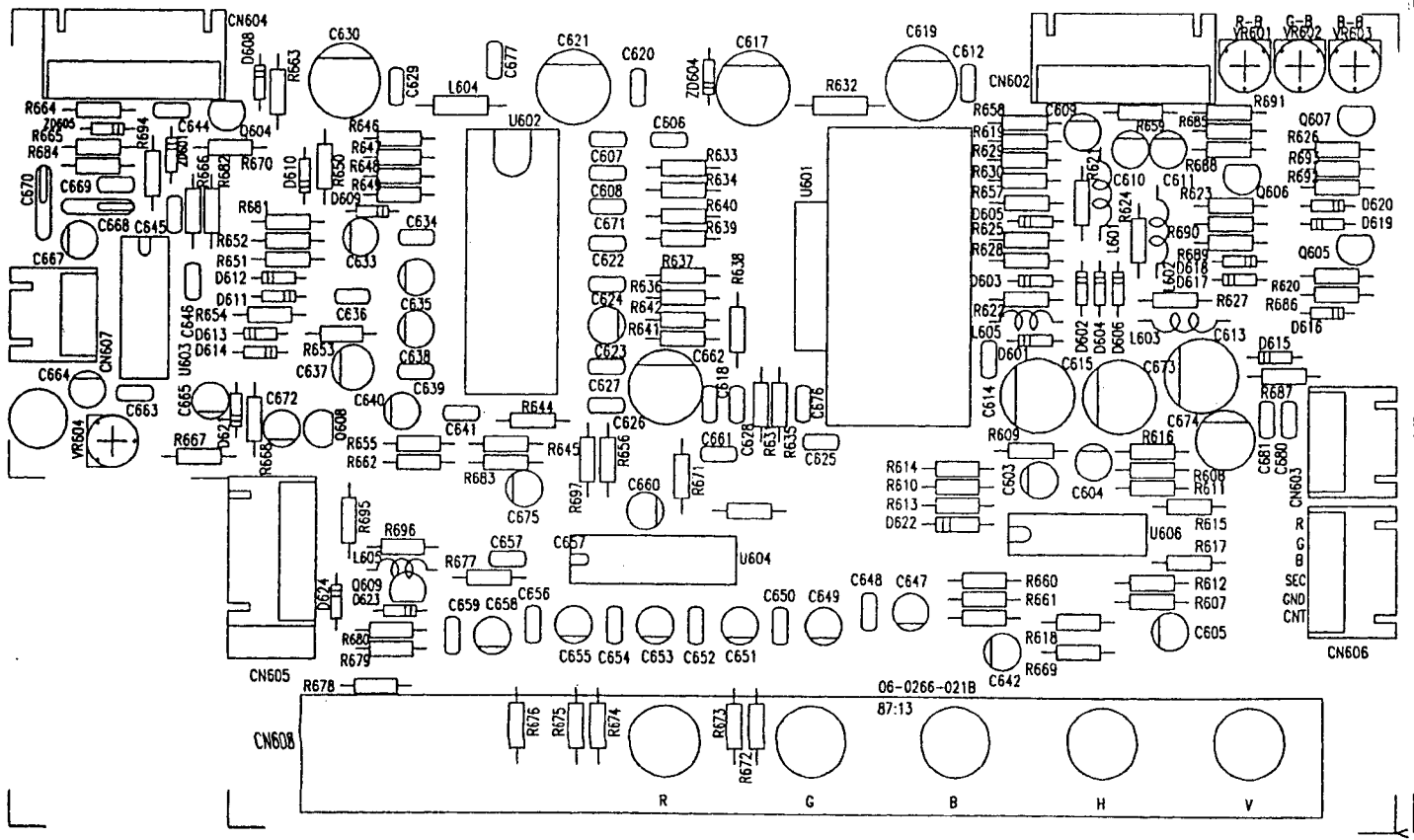
LOGIC CIRCUIT TROUBLE SHOOTING FLOW CHART

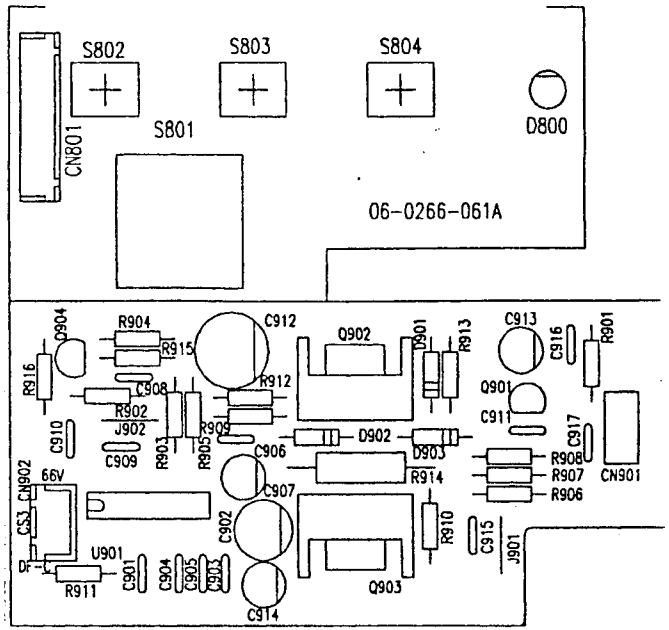


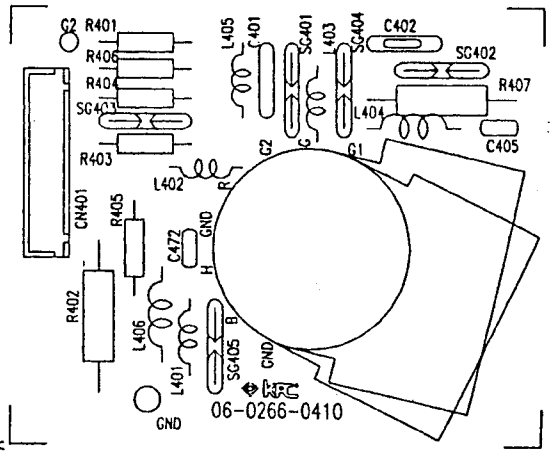
HORIZONTAL CIRCUIT TROUBLE SHOOTING FLOW CHART



CA6729/6929 VIDEO CRT FOCUS K/B BD







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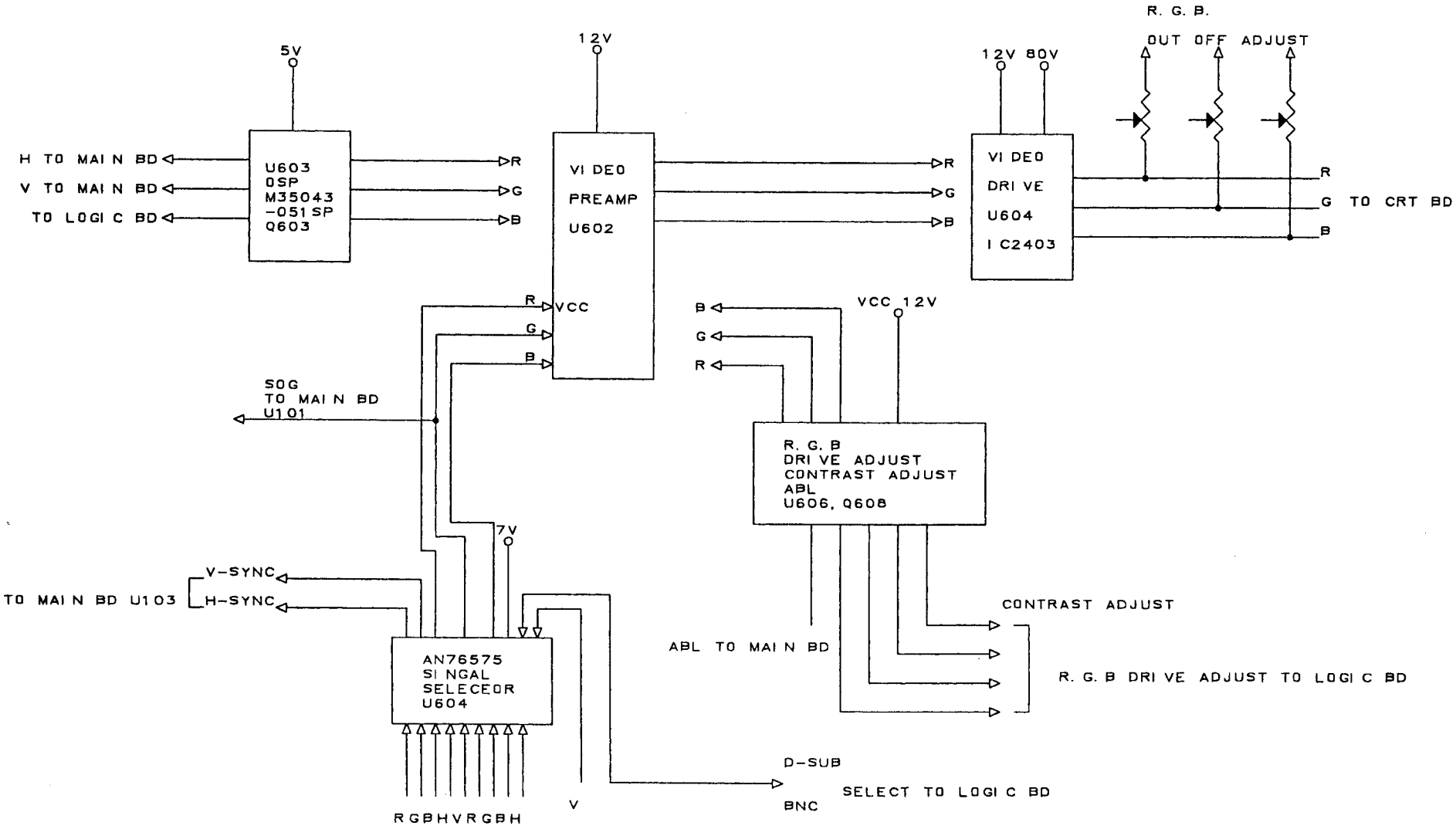

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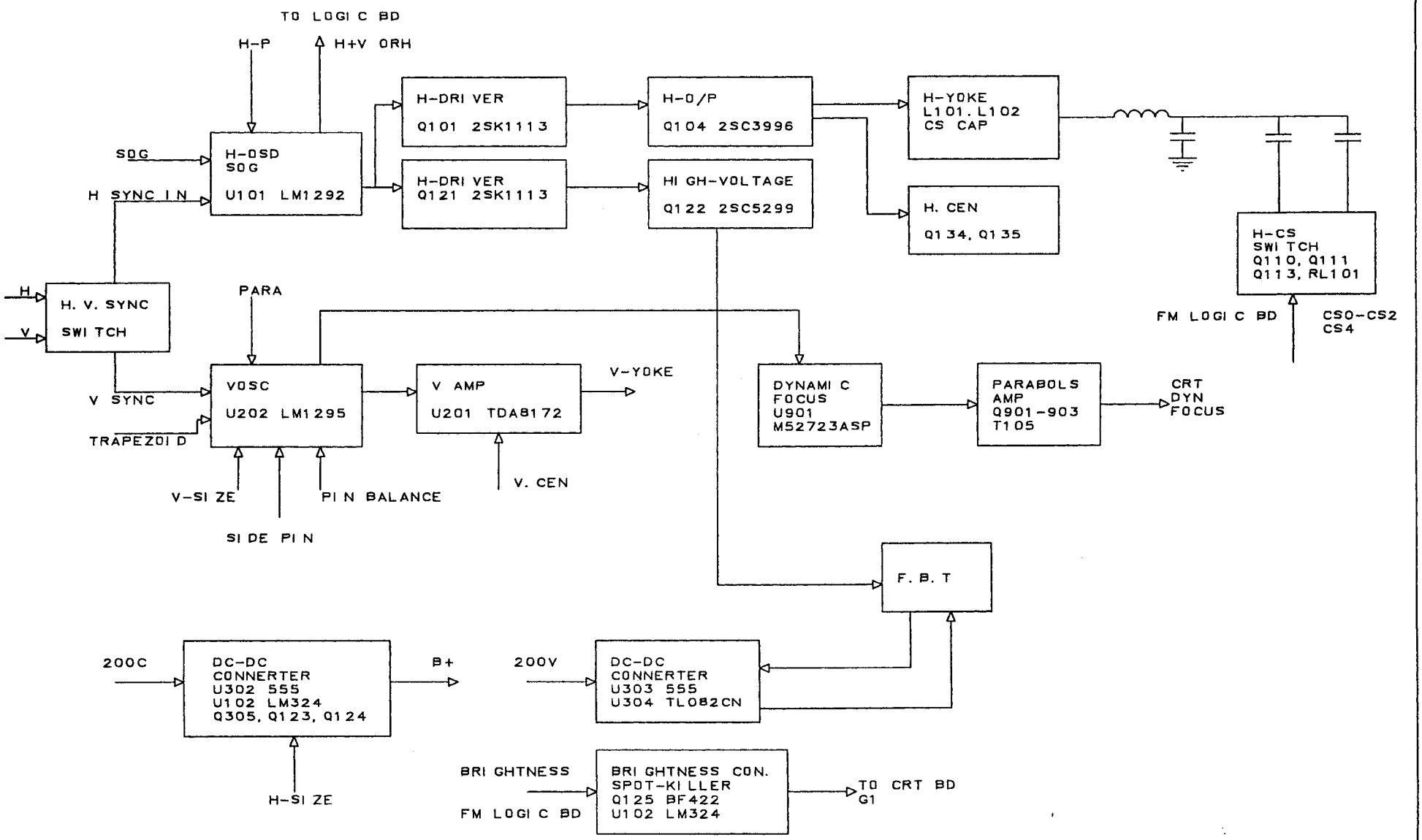

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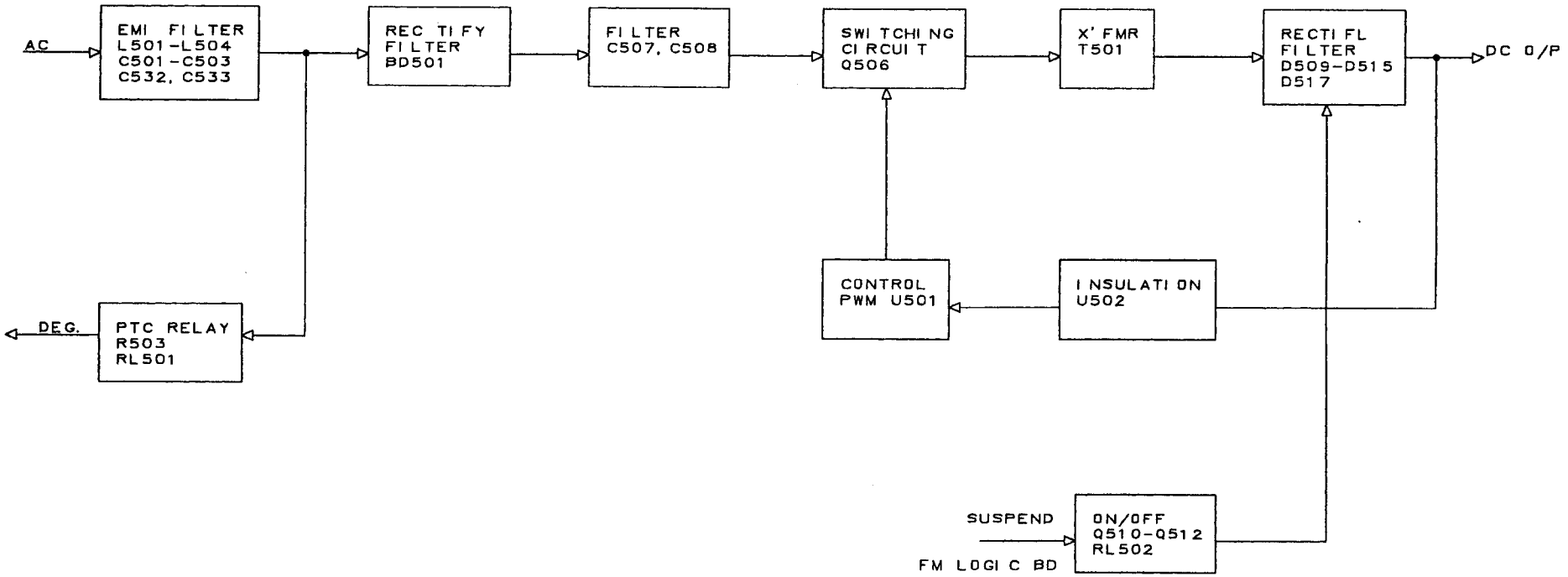

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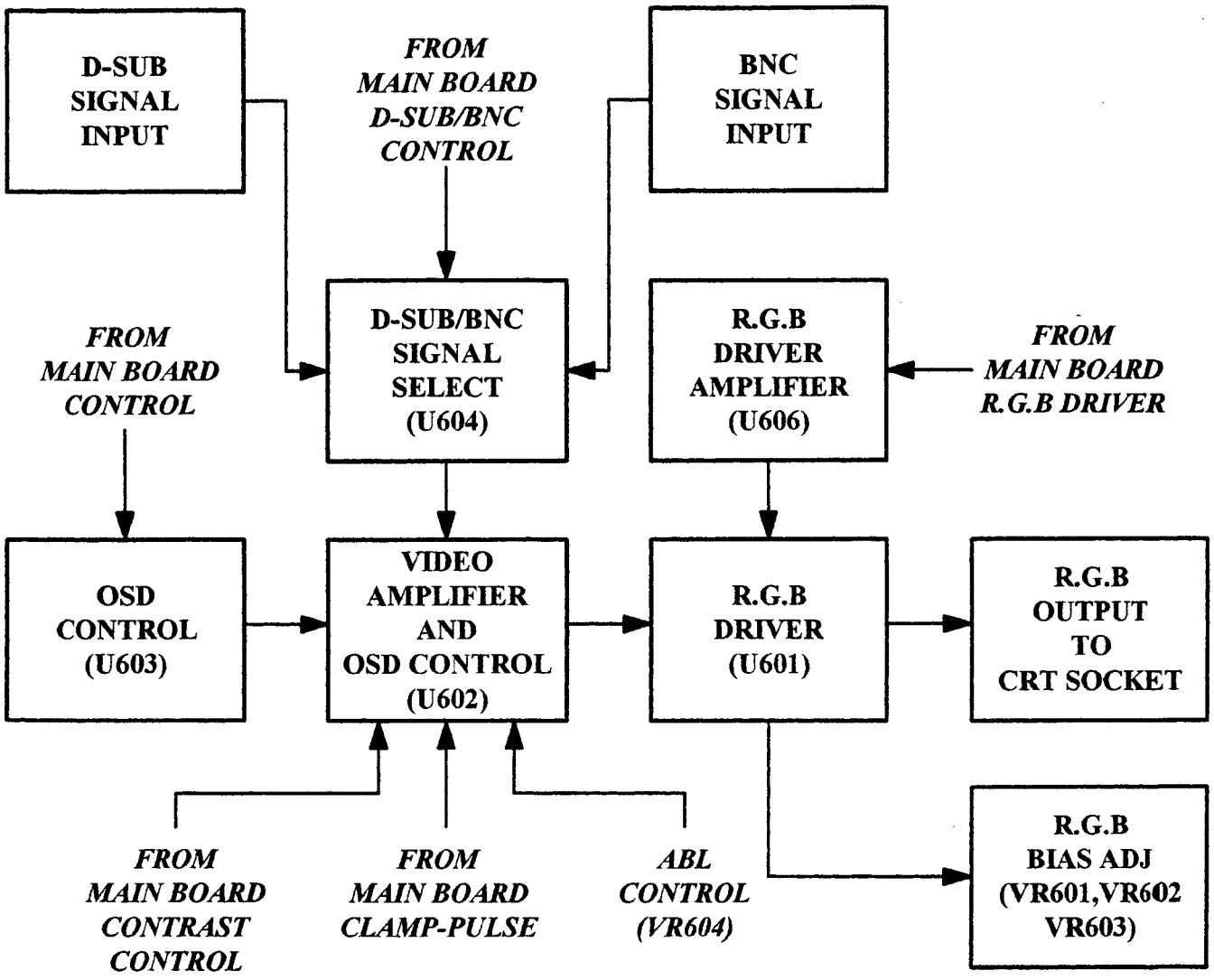
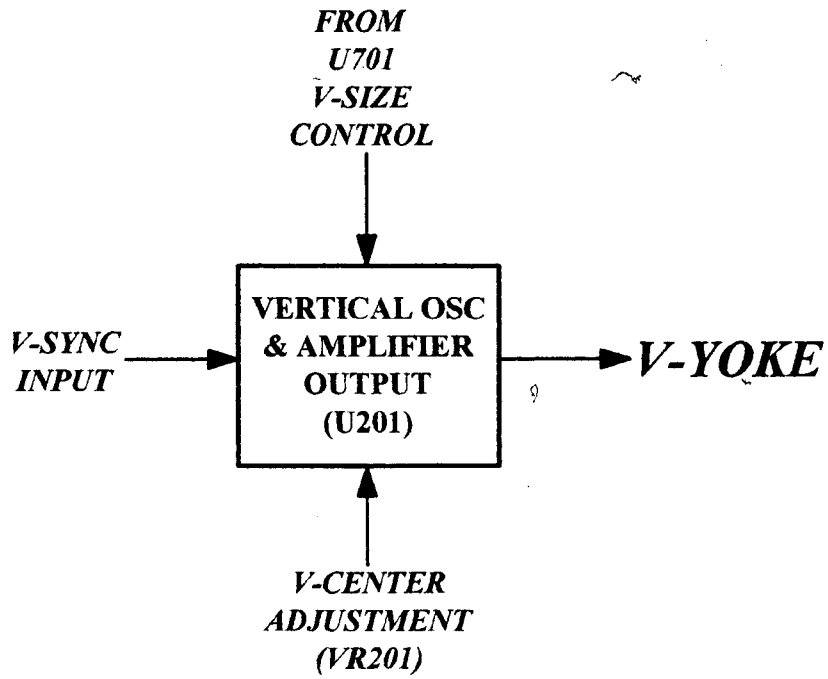
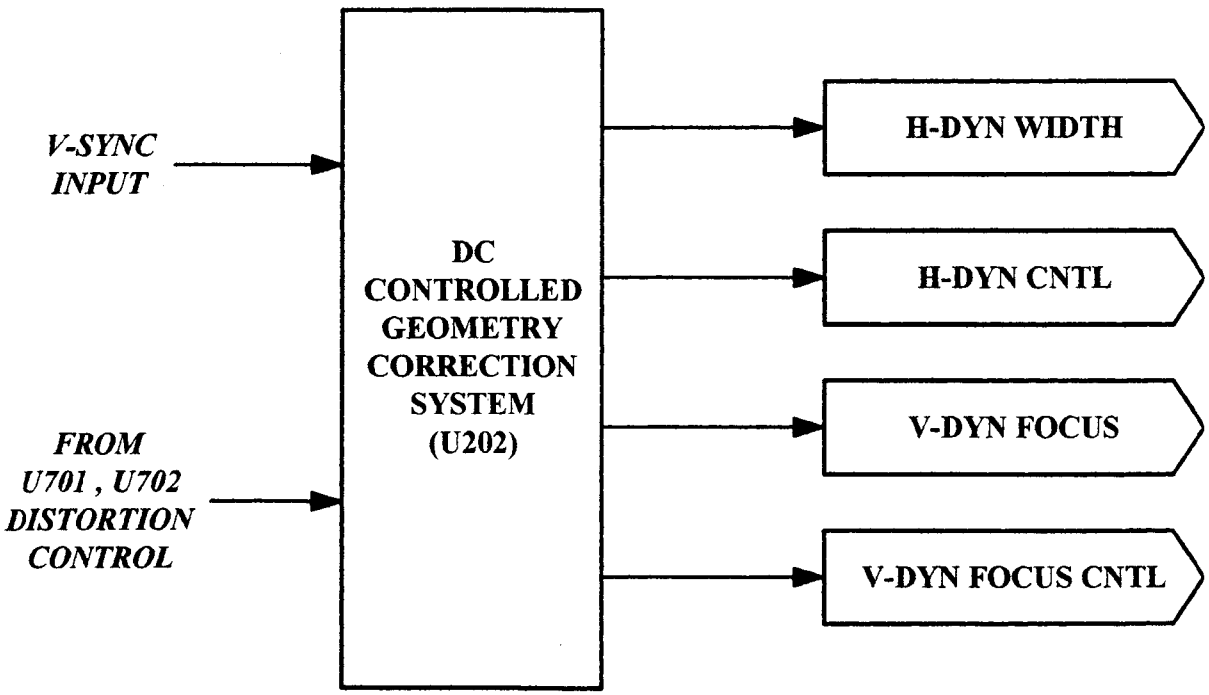
VIDEO CIRCUIT DIAGRAM

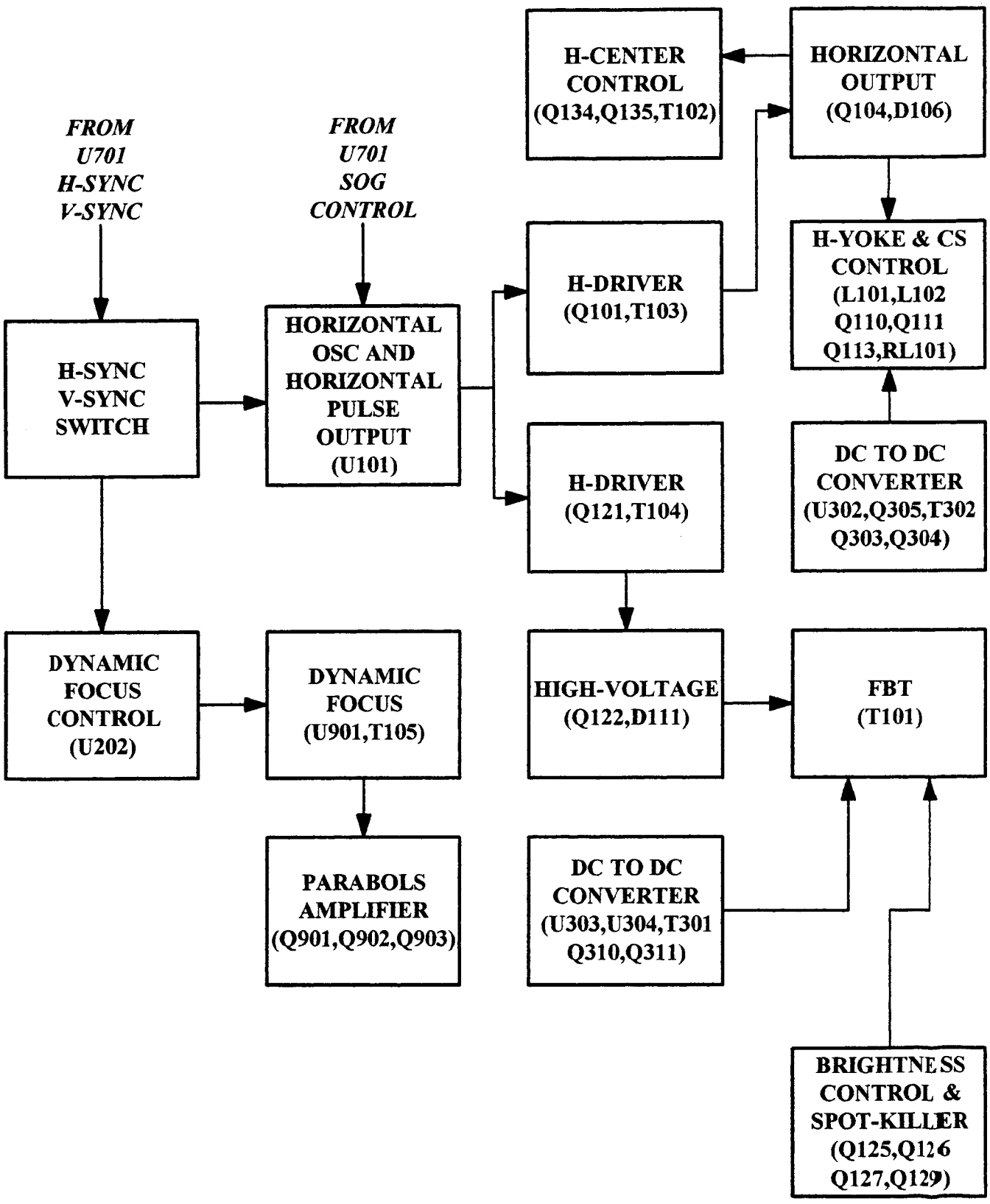

D-SUB SIGNAL INPUT
FROM MAIN BOARD D-SUB/BNC CONTROL
BNC SIGNAL INPUT
D-SUB/BNC SIGNAL SELECT (U604)
R.G.B DRIVER AMPLIFIER (U606)
FROM MAIN BOARD R.G.B DRIVER
FROM MAIN BOARD CONTROL
OSD CONTROL (U603)
VIDEO AMPLIFIER AND OSD CONTROL (U602)
R.G.B DRIVER (U601)
R.G.B OUTPUT TO CRT SOCKET
FROM MAIN BOARD CONTRAST CONTROL
FROM MAIN BOARD CLAMP-PULSE
ABL CONTROL (VR604)
R.G.B BIAS ADJ (VR601,VR602 VR603)

VERTICAL & DISTORTION CIRCUIT DIAGRAM

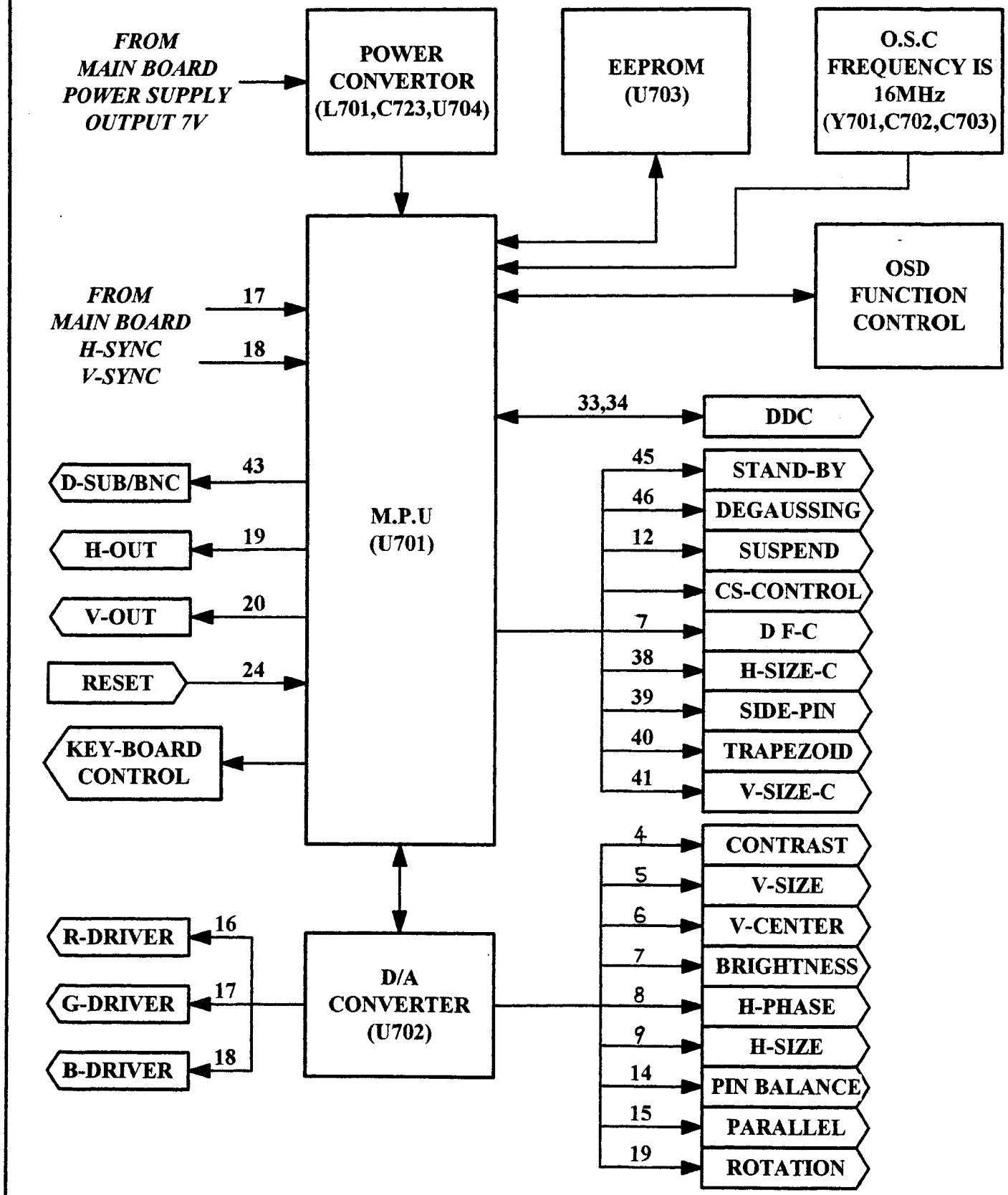




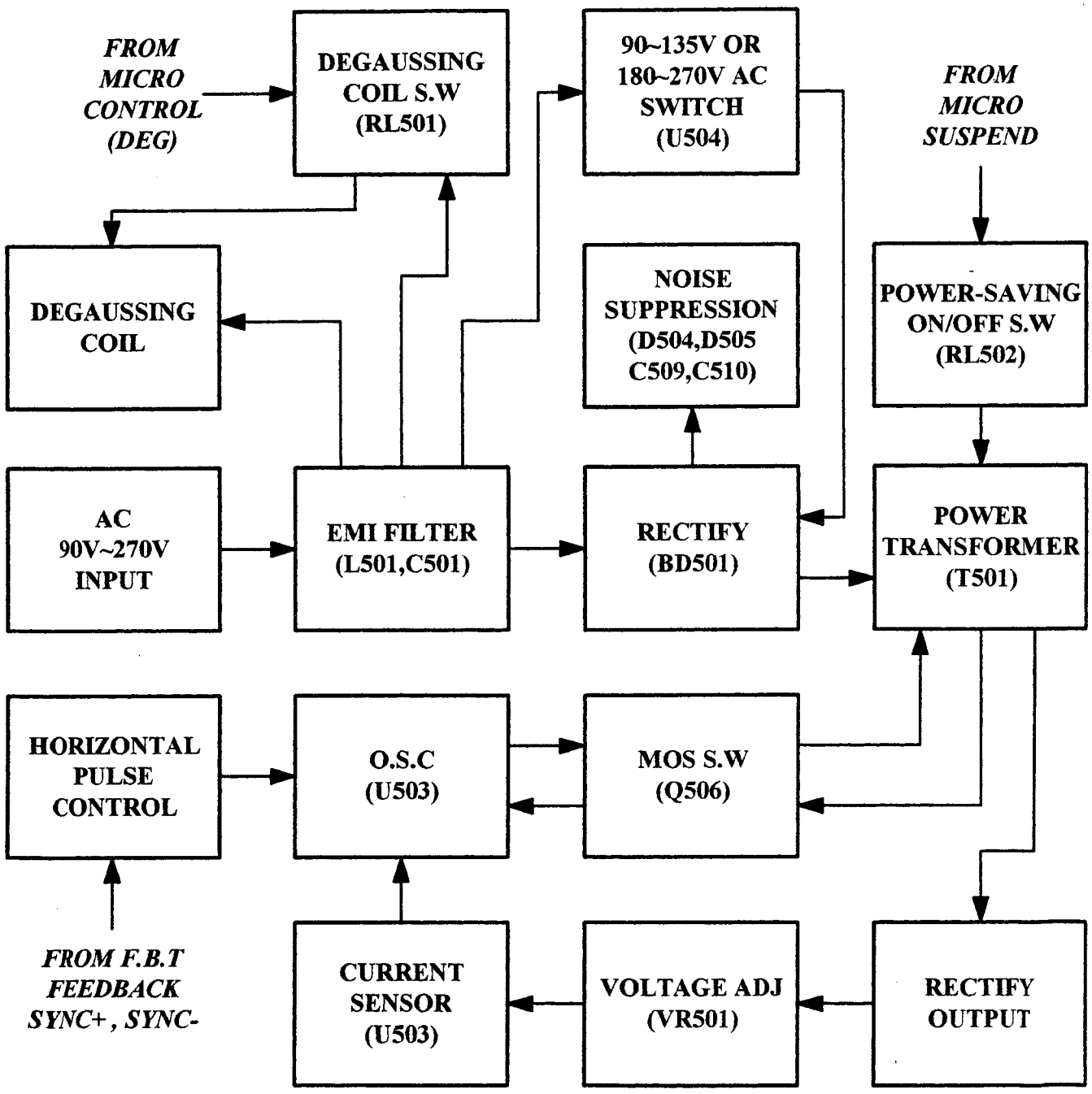
HORIZONTAL CIRCUIT DIAGRAM



LOGIC CIRCUIT DIAGRAM



POWER SUPPLY DIAGRAM



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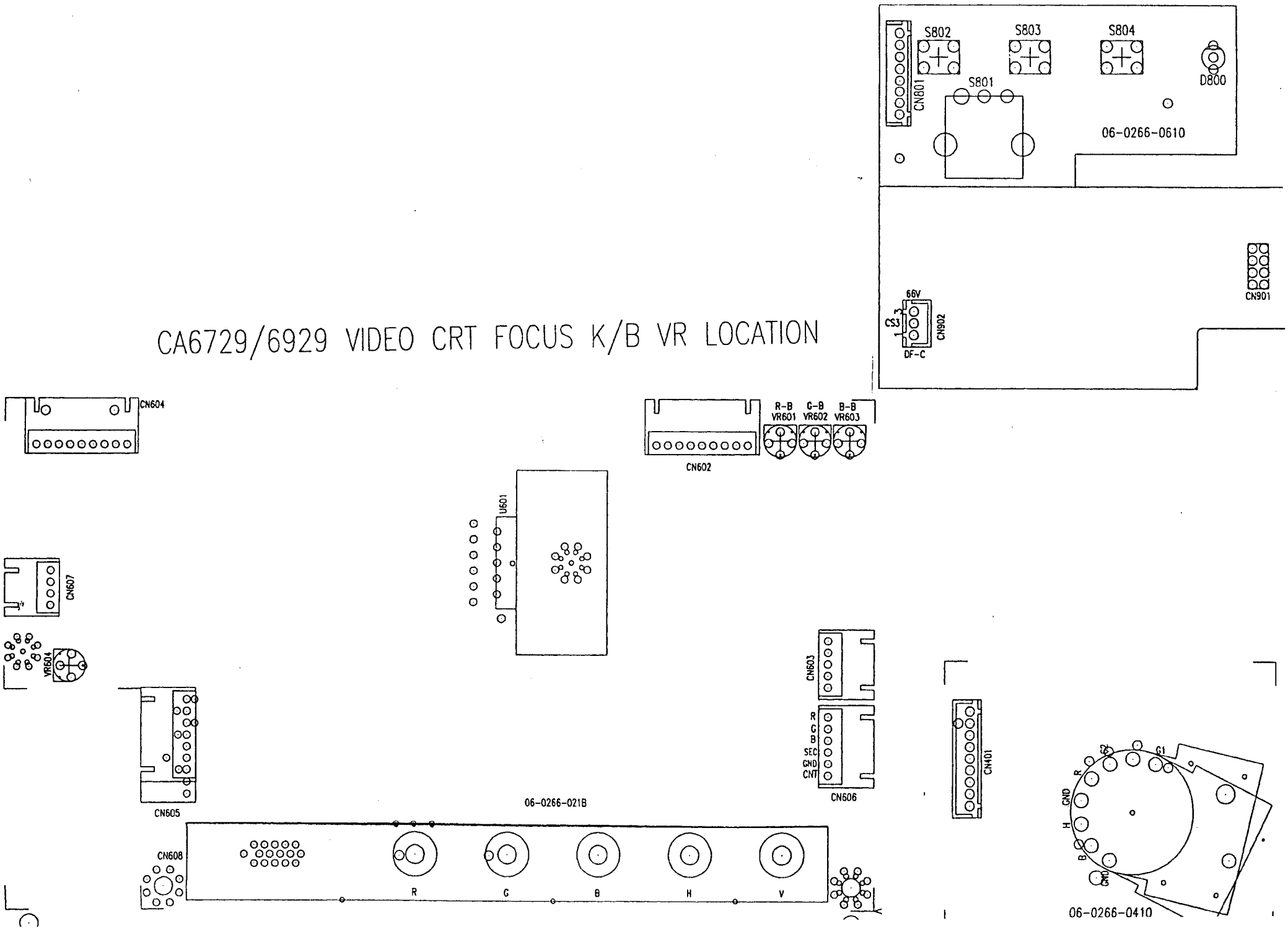
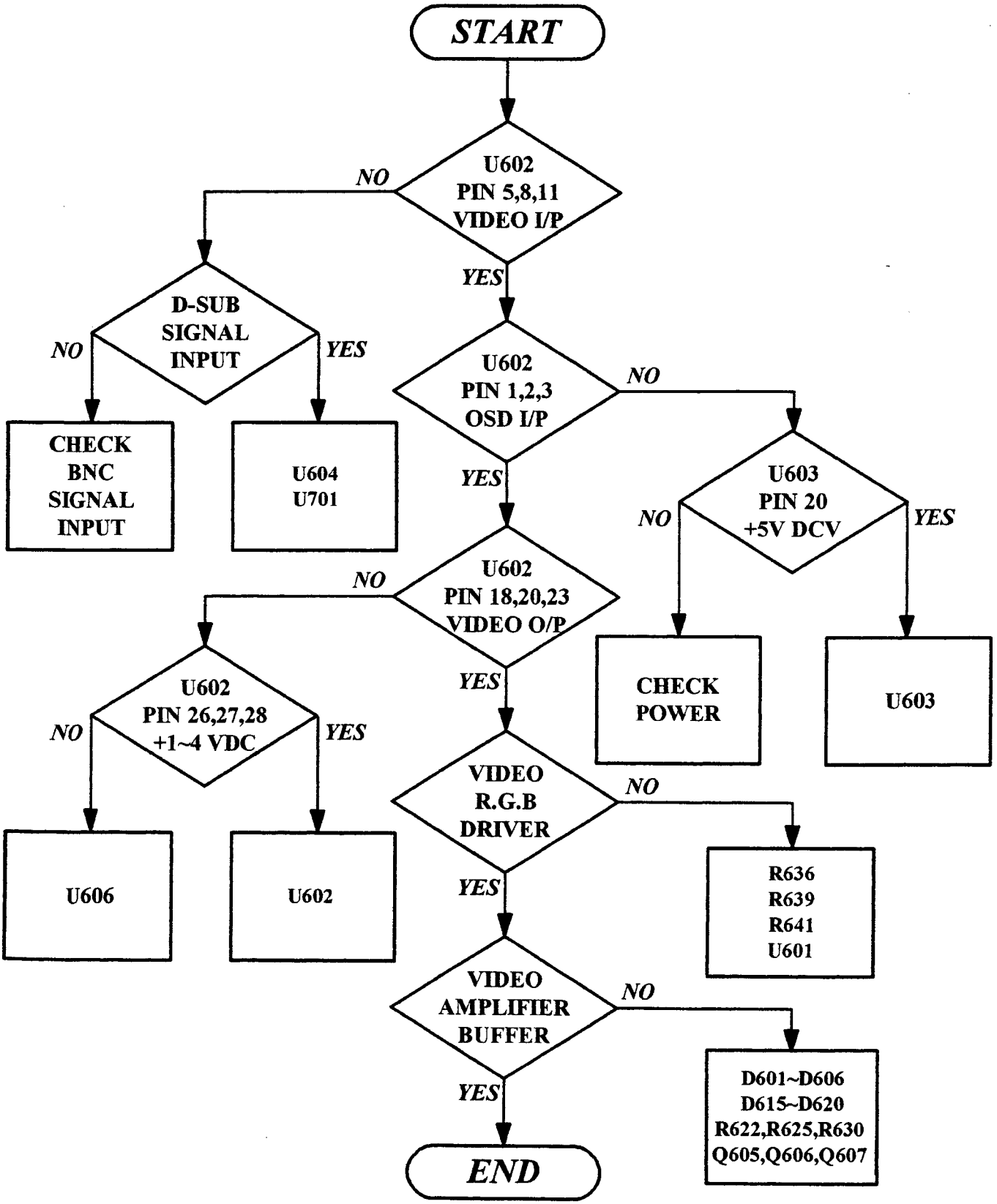
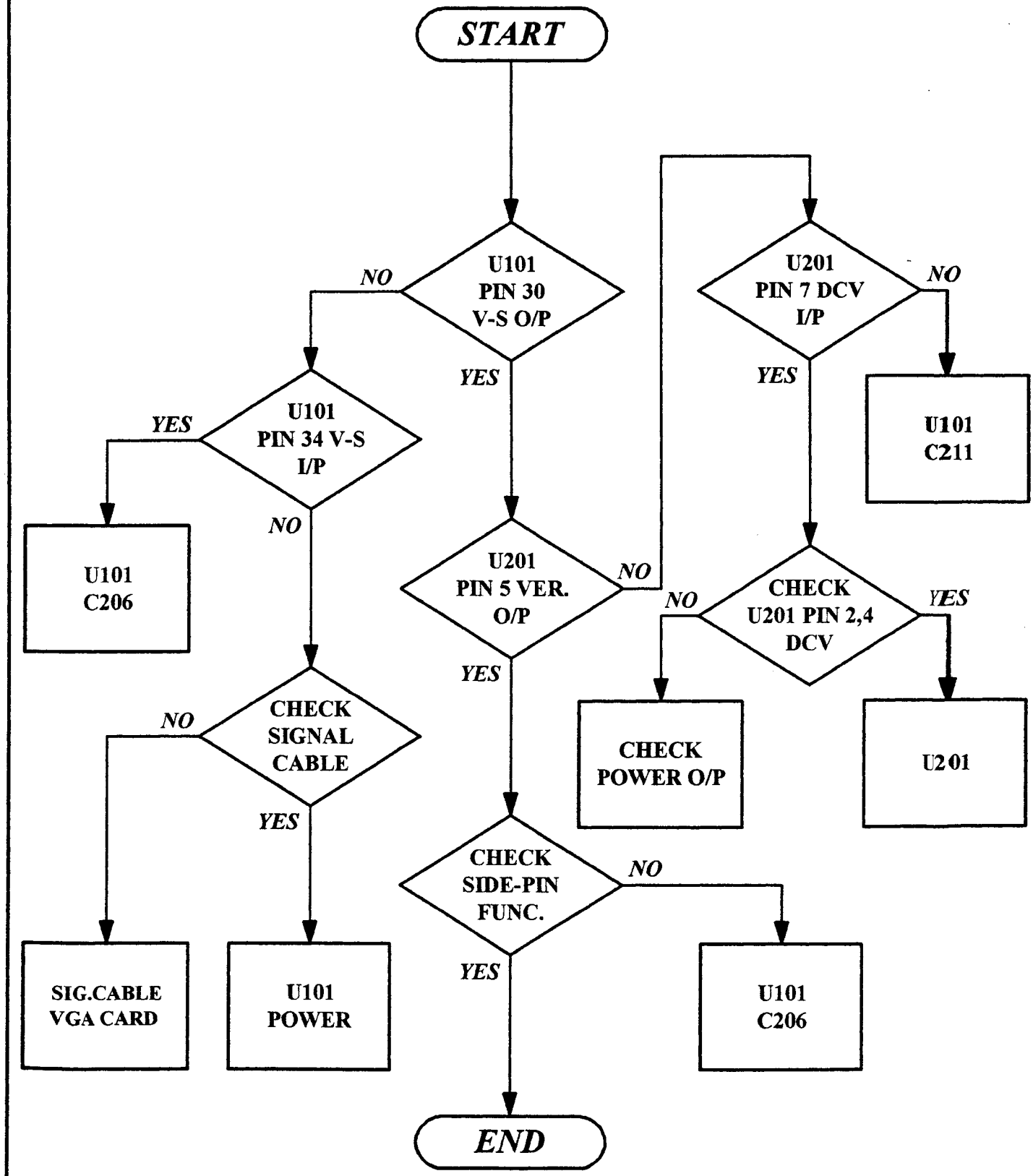


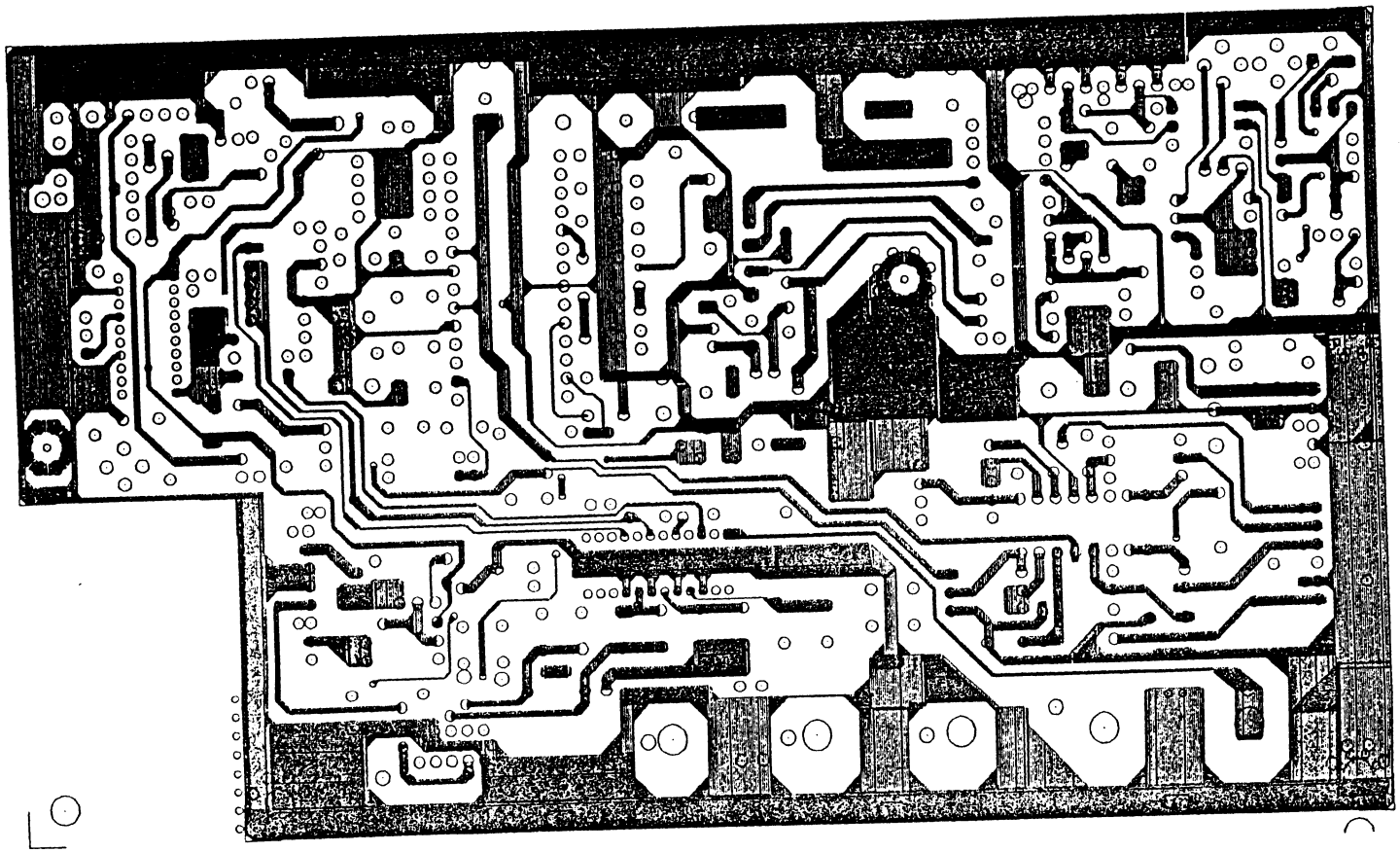
VIDEO CIRCUIT TROUBLE SHOOTING FLOW CHART

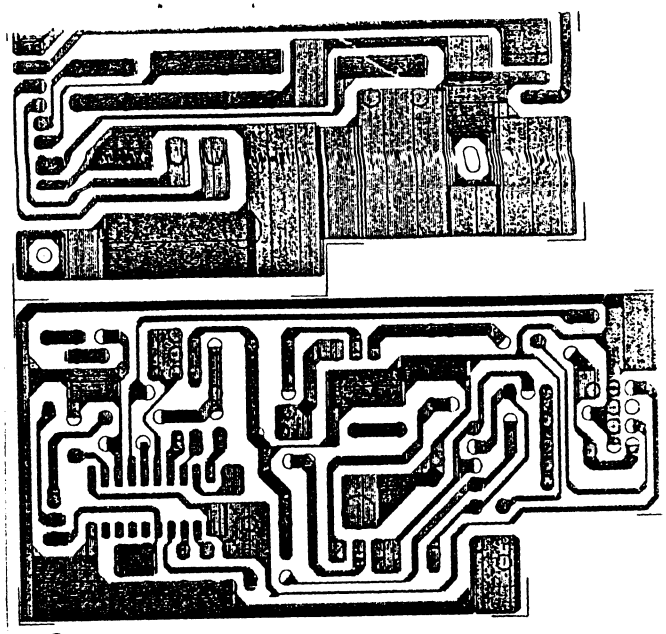


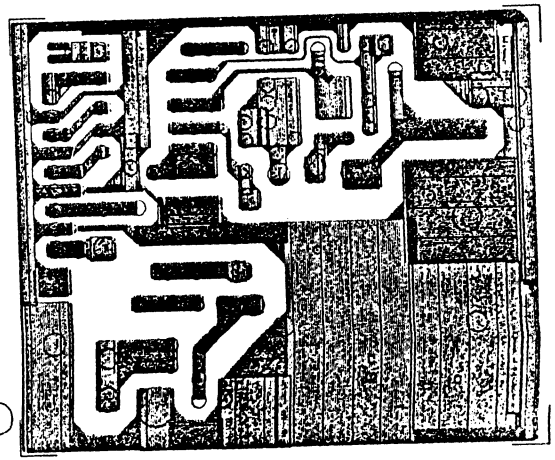
VERTICAL CIRCUIT TROUBLE SHOOTING FLOW CHART



CA6729/6929 VIDEO CRT FOCUS K/B BD







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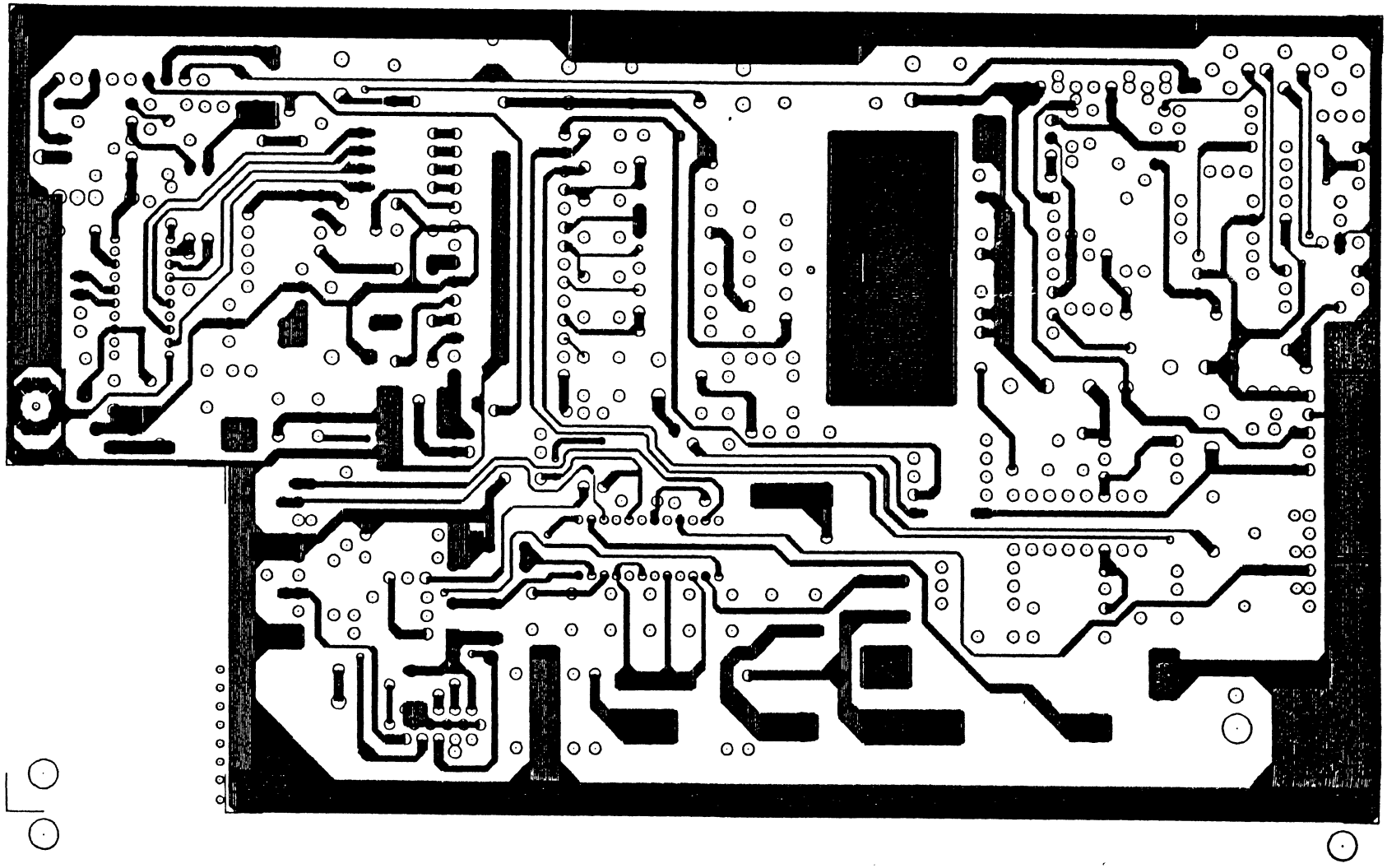
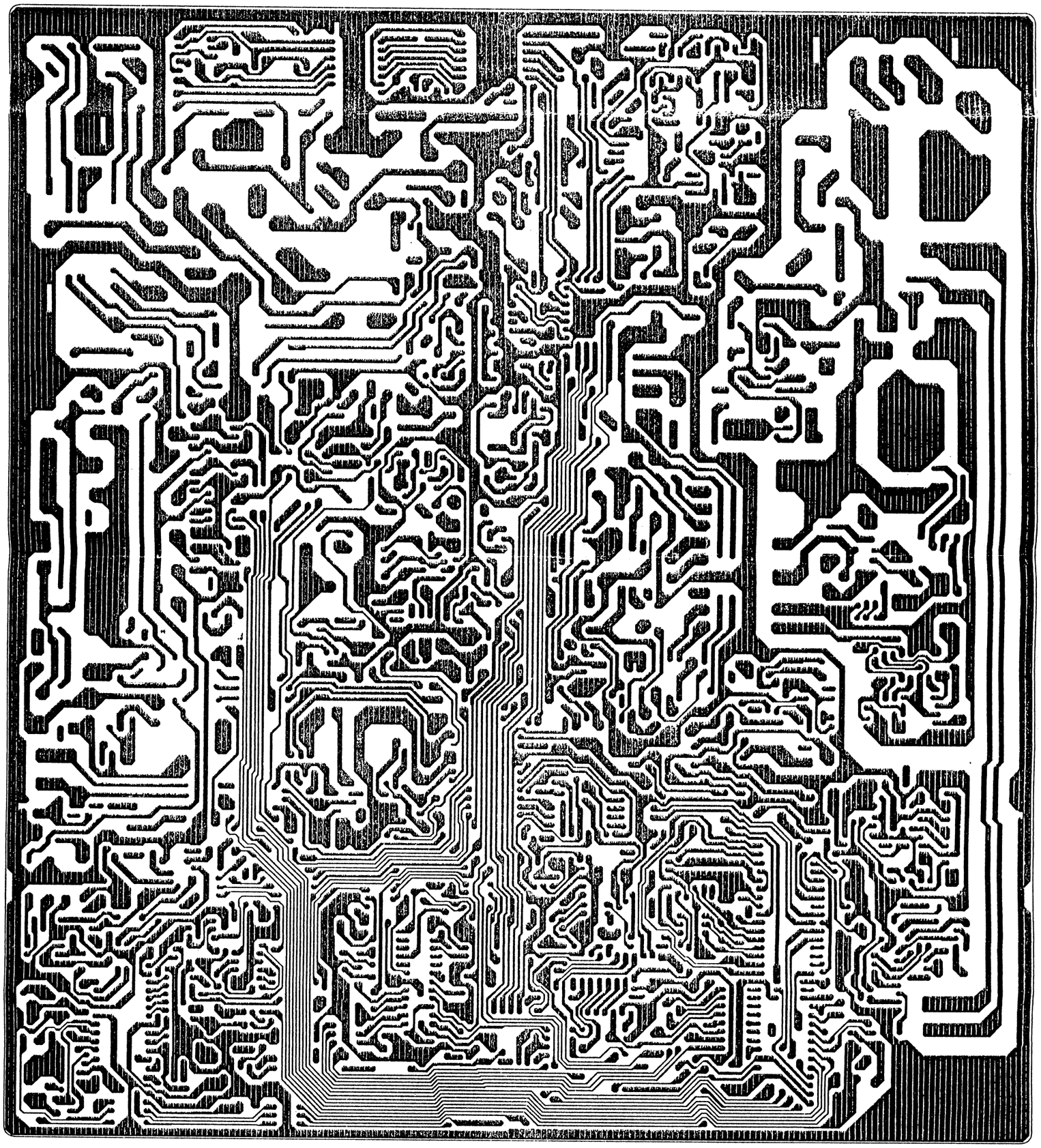


CA6719/6919/6929/6729SS/SL MAIN BD



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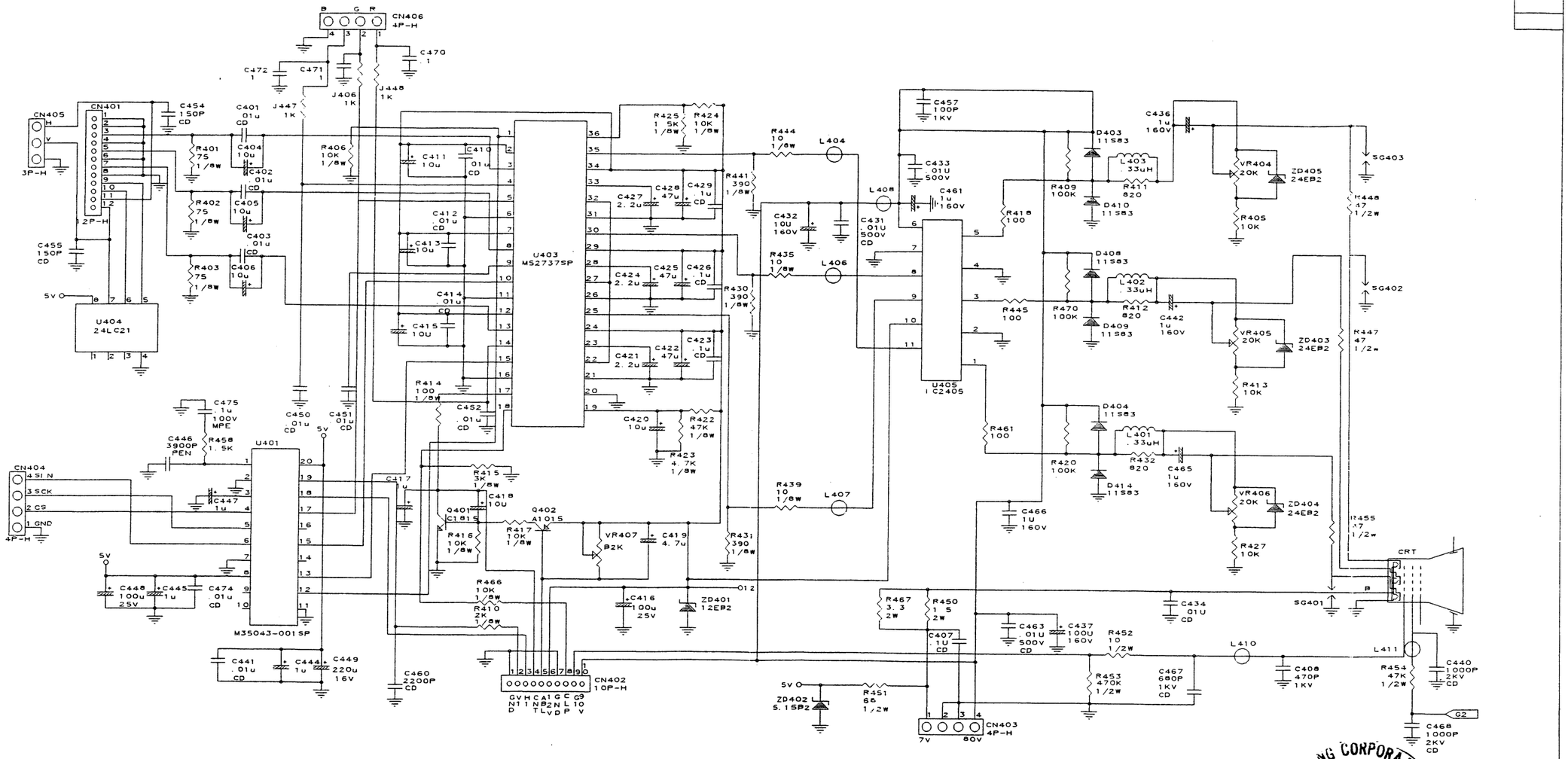

R/D
極機密 (E.C.)

PHI FENG CORPORATION
RELEASED
APR 28 1998
R&D
NO. 110, CHUNG-HSIAO RD., PA-TEH HSIANG, TAOYUAN HSIEN, TAIWAN, R.O.C.

APP	CHK	DWG	PHI FENG CORPORATION
經理 87.4.28 葉榮泰	R/D 87.4.29 蘇雪生	黃 97.4.29	MODEL: 110 CA671955, SL, CA691955, SL
			Title: VIDEO/CRT/BD
			Size C Document Number REV A
			Date: April 20, 1998 Sheet of

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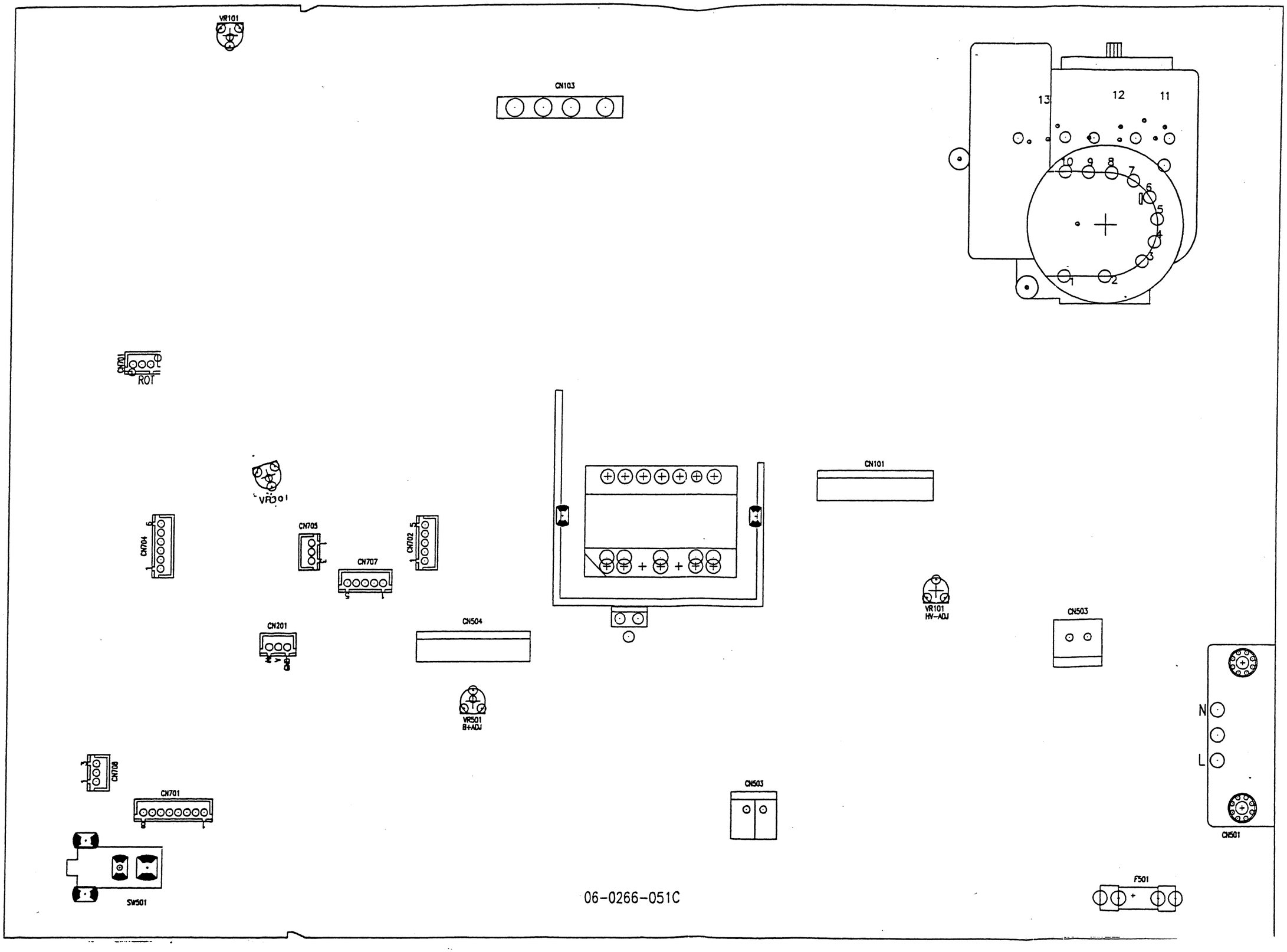
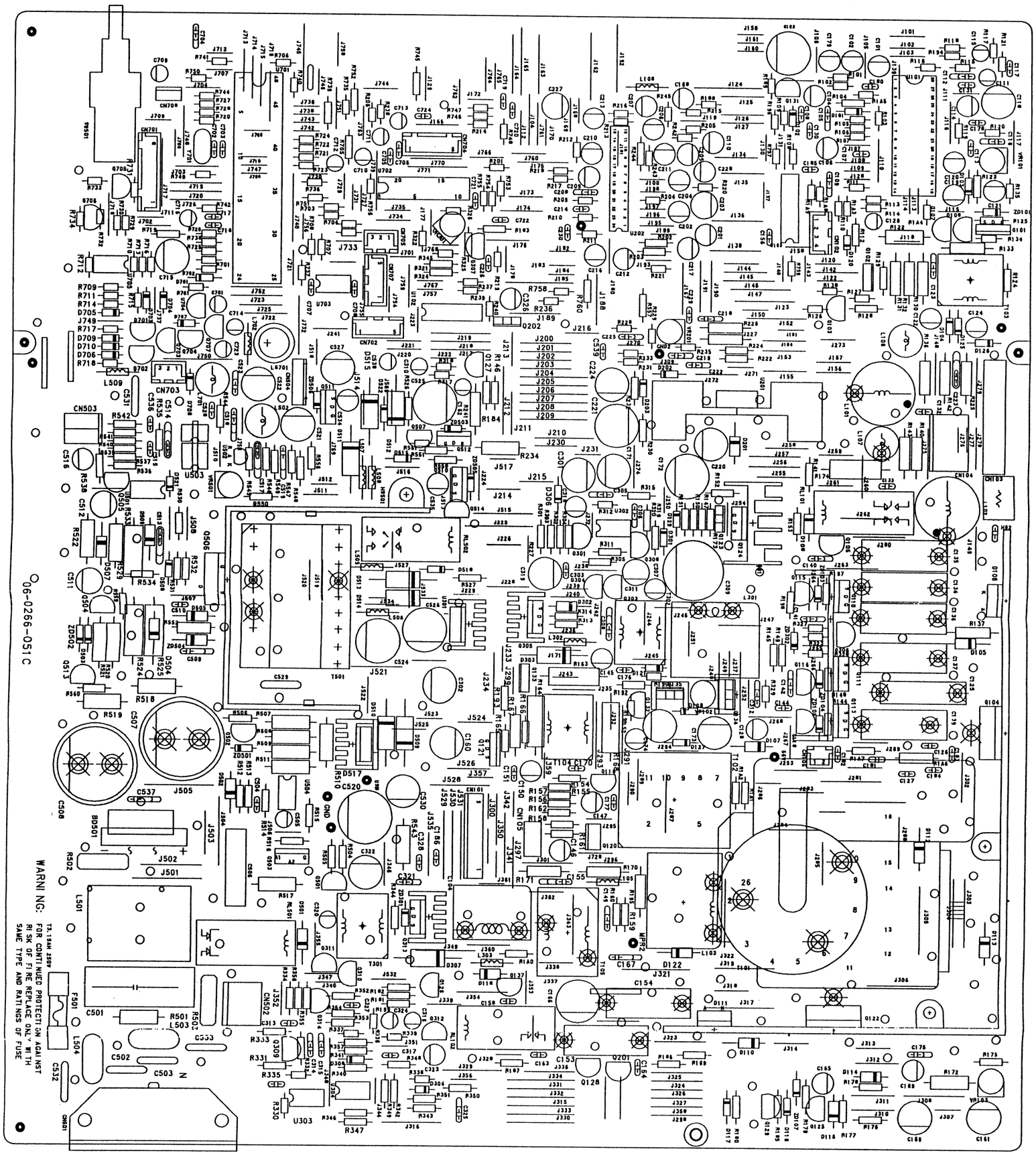
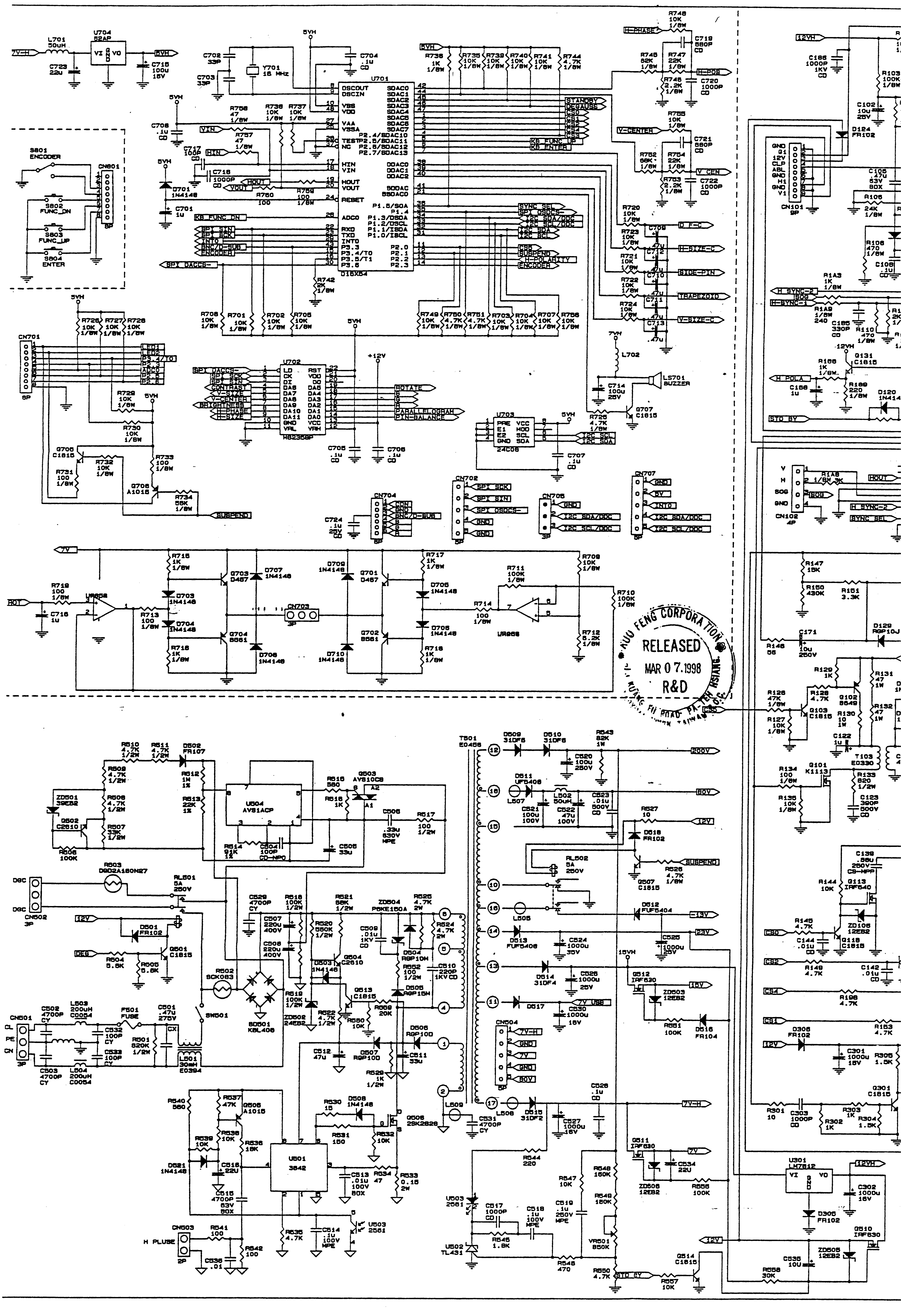



06-0266-051C
WARNING:
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE REPLACE ONLY WITH SAME TYPE AND RATINGS OF FUSE
T3.15AH 250V

CA6719/6919/6929/6729SS/SL MAIN BD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L701 50uH
C723 22u
C715 100u 16V
Y701 16 MHz
U701 D16X54
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SDAC0 SDAC1 SDAC2 SDAC3 SDAC4 SDAC5 SDAC6 SDAC7 P2.4/SDAC10 P2.6/SDAC12 P2.7/SDAC13 DDAC0 DDAC1 DDAC2 BDDAC BSDAC0 P1.5/SDA P1.4 P1.3/DSDA P1.2/DSCL P1.1/ISDA P1.0/ISCL P2.0 P2.1 P2.2 P2.3
STANDBY DEGAUSS CS0 CS1 CS2 CS4 CS3 KB FUNC UP KB ENTER KB FUNC DN
SYNC SEL SPI OSDCS- I2C SDA/DDC I2C SCL/DDC I2C SDA I2C SCL CS5 SUSPEND H-POLARITY ENCODER
SPI SIN SPI SCK INT0 BNC/D-SUB SPI DACCS-
H-PHASE H-POS V-CENTER V CEN D F-C H-SIZE-C SIDE-PIN TRAPEZOID V-SIZE-C
S801 ENCODER
S802 FUNC_DN
S803 FUNC_UP
S804 ENTER
CN801 8P
CN701 8P
LED1 LED2 P3.4/T0 P2.3 ADC0 P2.5 P2.6
U702 M62358P
CONTRAST V-SIZE V-CENTER BRIGHTNESS H-PHASE H-SIZE
ROTATE B G R PARALLELOGRAM PIN-BALANCE
U703 24C08
LS701 BUZZER
Q707 C1815
Q705 C1815
Q706 A1015
CN704 8P
CN702 5P
CN705 3P
CN707 5P
U9858
CN703 3P
Q703 D467
Q701 D467
Q704 B561
Q702 B561
KUO FENG CORPORATION
RELEASED
MAR 0 7.1998
R&D
CN101 9P
CN102 4P
T103 E0330
Q101 K1113
Q113 IRF640
T501 E0455
200V 80V 12V -13V 23V 15V 7V USB 7V-H 7V
U504 AV81ACP
Q503 AV810C8
RL501 5A 250V
RL502 5A 250V
CN502 3P
CN501 3P
F501 FUSE
SW501
BD501 KBL406
L501 30mH E0394
U501 3842
Q506 2SK2828
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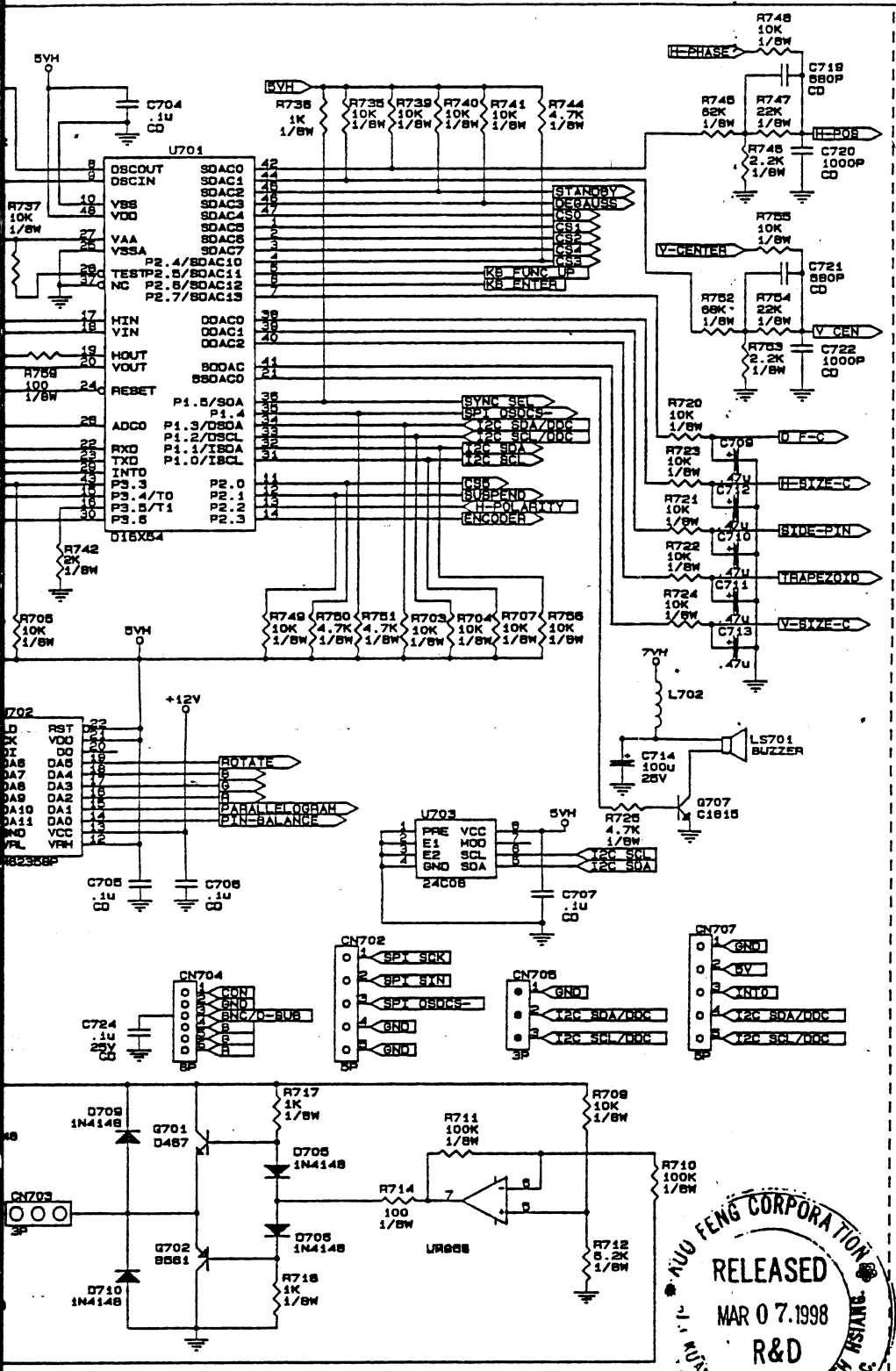

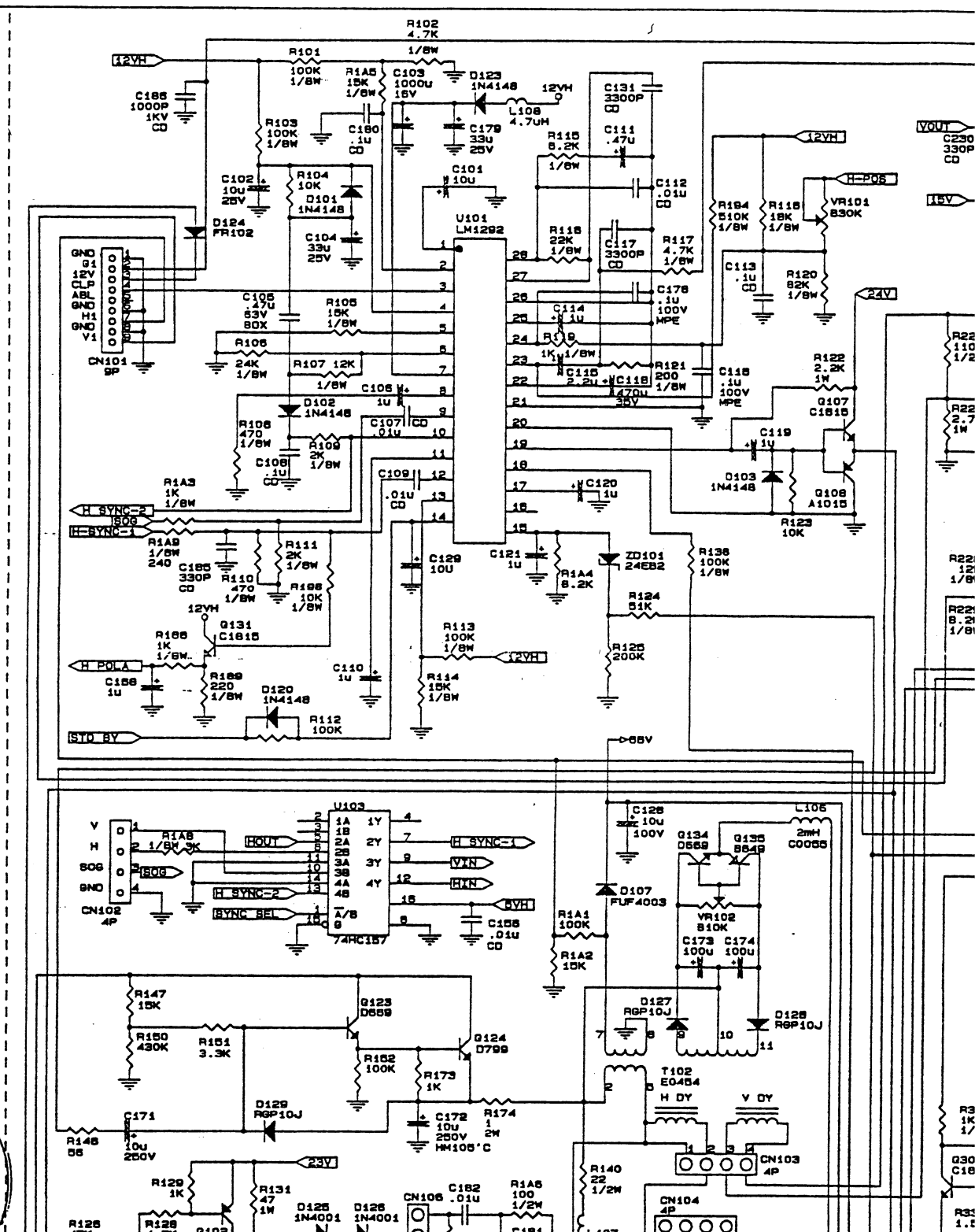

KUU FENG CORPORATION
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MAR 07.1998
R&D
NO. 1, KUANG FU ROAD, PA-TEH, HSIANG, R.O.C.

ECO NO
266-001
266-002
266-004
266-008
266-013

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U102 LM1295
U103 74HC157
U201 TDA8172
U202 M52723ASP
U301 NE555
U302 NE555
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U901
U902
U1028 LM324
U102A LM324
U102C LM324
U8868

T101 FBT
T102 E0454 H DY V DY
T104 E0330
T105 E0468
T106 E0466
T301 E0378
T302 E0378

L101 4uH C0077
L102 3.3uH C0084
L103 450uH C0091
L104 7.5mH C0047
L105 2mH C0055
L106 4.7uH
L107 750uH C0085
L301 5mH C0032
L302
L303

RL101 5A 250V
RL102 10A 250V

VR101 830K
VR102 810K
VR103 850K
VR201 B1K V-CEN
VR301 83K

ZD101 24EB2
ZD103 12EB2
ZD104 12EB2
ZD301 12EB2
ZD302 15EB2
ZD107 15EB2

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APP	CHK	DWG	KUO FENG CORPORATION
經理 87.5.7 葉榮泰	課長 87.5.7 吳上勝	黃 87.5.7 碧慧	MODEL: NO. CA6729SS/SL
			Title MAIN/POWER/LOGIC/KEY/FOCUS BD.
			Size D Document Number REV A
			Date: May 4, 1998 Sheet of

R/D (E.C.)